Lawrence Berkeley National Laboratory
Recent Work

Title
Hands-on Universe TM

Permalink
https://escholarship.org/uc/item/3qh7p05w

Author
Marshall, Amelia

Publication Date
1997-01-03
Availability of HOU Software, Curriculum, and Telescope Access

- HOU-IP (Image Processing) $50
- HOU-IP + Curriculum Text $200
- HOU-IP + Curriculum + Telescope Access + Teacher Support + Teacher Training $250

(Prices are subject to change.)

How Your Institution Can Get Involved in Hands-On Universe™

Please fill in the enclosed information form and return it to:
Dr. Susana E. Deustua c/o Hands-On Universe™
Ernest Orlando Lawrence
Berkeley National Laboratory
One Cyclotron Road, MS 50-232
Berkeley, CA 94720

For more information:
- e-mail HOU at: houstaff@hou.lbl.gov
or contact Hands-On Universe™ by calling Amelia Marshall (510-486-5236) at Lawrence Berkeley National Laboratory.

Samuel Silver Space Sciences Laboratory,
University of California at Berkeley

Ernest Orlando Lawrence Berkeley National Laboratory
is an equal opportunity employer.

This work was supported by the U.S. Department of Energy
under Contract No. DE-AC03-76SF00098
PUB-787 (I/97)
**Hands-On Universe™**

Developed at the Ernest Orlando Lawrence Berkeley National Laboratory, Hands-On Universe™ (HOU) is a science education program that enables participants to investigate the Universe by applying tools and concepts from science, math, and technology. Using the Internet, HOU participants around the world can request observations from automated telescopes or download images from a large image archive and analyze them with the aid of user-friendly, powerful image-processing software.

HOU is working to make its unique science learning opportunities available to a wide range of diverse participants:

- High School HOU.
- HOU Teacher Workshops.
- Informal Science Education—such as in museums and planetaria.
- Middle School HOU (under development).
- Department of Defense Dependents' Schools (DODDS) HOU.
- Undergraduate HOU (under development).

**Benefits of HOU Participation**

Involvement in hands-on activities where participants working together **learn** science by **doing** science.

**Opportunities to collaborate** with participants around the world using the HOU WWW site (http://hou.lbl.gov).

**Use of powerful, research level tools.**

Automated remote telescopes and image processing software enable participants to learn advanced skills and take charge of their own learning.

**Opportunities to join with scientists doing real astronomy research** such as discovering asteroids or monitoring a set of galaxies in your “Patch of Sky” for the appearance of a supernova.

**Requirements for Using HOU**

- A PC 386DX (but preferably 486 or higher), 8 MB RAM, Windows '95, or a Mac II (or higher) is needed to run the software.
- An Internet connection with a Web browser.
DISCLAIMER

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.
### Hands on Universe

**Information sheet**

<table>
<thead>
<tr>
<th>Faculty Member Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Department</td>
</tr>
<tr>
<td>Name of Your Institution</td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Phone</td>
<td>Fax</td>
</tr>
</tbody>
</table>

Does your institution have a computer lab available for use?  
**YES**  **NO**

Do you have access to the Internet?  
**YES**  **NO**

How would you utilize the HOU program?  
— To start a separate course in astronomy  
— To supplement my current teaching and research in:  
  — Earth Sciences  
  — Computer Technology  
  — Physics  
  — Other ____________________________

Are you interested in developing an outreach program with high schools or middle schools in your area?  
**YES**  **NO**

Would you consider establishing a summer camp or after school program at your institution?  
**YES**  **NO**

Please fill in this information form and return it to:  
Dr. Susana E. Deustua  
c/o Hands on Universe  
Ernest Orlando Lawrence  
Berkeley National Laboratory  
One Cyclotron Road, MS 50-236  
Berkeley, CA 94720
Dr. Susana E. Deustua  
c/o Hands on Universe  
Ernest Orlando Lawrence  
Berkeley National Laboratory  
One Cyclotron Road, MS 50-236  
Berkeley, CA 94720